

Section II  
Soil and Site Information

Construction Materials Table 2  
Yankton County, South Dakota

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ba: Baltic-----	85	Good		Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.31	Poor Depth to saturated zone	0.00
Bb: Baltic-----	85	Poor Too clayey	0.00	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
Bc: Baltic-----	85	Poor Too clayey	0.00	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone	0.00 0.00
BdE: Betts-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Slope Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope Carbonate content	0.00 0.92
Gavins-----	30	Poor Droughty Carbonate content Depth to bedrock Low content of organic matter Water erosion	0.00 0.00 0.00 0.50 0.90	Poor Depth to bedrock Low strength Slope	0.00 0.00 0.00	Poor Slope Carbonate content Depth to bedrock	0.00 0.00 0.00

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Be: Blake-----	85	Poor Sodium content Low content of organic matter Water erosion Carbonate content	0.00 0.50 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.93	Poor Sodium content Carbonate content	0.00 0.97
Bf: Blencoe-----	85	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.97	Poor Low strength	0.00	Fair Carbonate content	0.97
Bg: Blencoe-----	50	Fair Low content of organic matter Water erosion Carbonate content	0.88 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.74	Fair Carbonate content	0.97
Gayville-----	35	Poor Too alkaline Sodium content Low content of organic matter Salinity Water erosion Carbonate content	0.00 0.10 0.12 0.88 0.90 0.97	Good		Poor Salinity Carbonate content Sodium content	0.00 0.97 0.98
BhB: Blendon-----	50	Fair Low content of organic matter	0.12	Good		Good	
Thurman-----	25	Fair Too sandy Low content of organic matter Droughty	0.06 0.12 0.91	Good		Fair Too sandy	0.06

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Bk: Blyburg-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
Bm: Bon-----	90	Good		Good		Good	
BnA: Bonilla-----	55	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
Crossplain-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.63	Poor Too Clayey Depth to saturated zone	0.00 0.00
BoE: Boyd-----	50	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.08	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.58
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Slope Shrink-swell	0.00 0.50 0.87	Poor Slope Carbonate content	0.00 0.97
Bp: Baltic-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.22	Poor Depth to saturated zone Too Clayey	0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Br: Blyburg-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Good		Good	
Gayville-----	30	Poor Too alkaline  Sodium content Low content of organic matter Salinity Water erosion Carbonate content	0.00 0.10 0.12 0.88 0.90 0.97	Fair Depth to saturated zone	0.76	Poor Salinity  Sodium content Depth to saturated zone Carbonate content	0.00 0.60 0.76 0.97
Bs: Blencoe-----	80	Poor Too clayey Low content of organic matter Water erosion  Carbonate content	0.00 0.88 0.90 0.97	Poor Low strength Shrink-swell  Depth to saturated zone	0.00 0.23 0.76	Poor Too Clayey Depth to saturated zone	0.00 0.76
Ca: Chancellor-----	85	Fair Too clayey  Low content of organic matter Water erosion	0.50 0.50 0.90	Poor Low strength  Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.50
Cb: Clamo-----	85	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Too Clayey Depth to saturated zone Salinity	0.00 0.00 0.88

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cc: Clamo Variant-----	90	Fair Low content of organic matter Too clayey	0.50 0.76	Poor Depth to saturated zone Low strength	0.00 0.00	Poor Depth to saturated zone Too Clayey	0.00 0.76
CdA: Clarno-----	85	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
CeB: Clarno-----	60	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Bonilla-----	20	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
ChA: Clarno-----	50	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Crossplain-----	20	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.63	Poor Too Clayey Depth to saturated zone	0.00 0.00
Stickney-----	15	Fair Low content of organic matter Salinity Water erosion	0.50 0.88 0.99	Poor Low strength Shrink-swell	0.00 0.72	Poor Salinity	0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CkA: Clarno-----	40	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.89	Good	
Crossplain-----	25	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.63	Poor Too Clayey Depth to saturated zone	0.00 0.00
Tetonka-----	15	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.26	Poor Depth to saturated zone Too Clayey	0.00 0.00
CmE: Crofton-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Slope	0.00 0.92	Poor Slope	0.00
Nora-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell Slope	0.00 0.87 0.92	Poor Slope	0.00
CoE: Crofton-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Slope Low strength	0.00 0.00	Poor Slope	0.00
Boyd-----	35	Poor Too clayey Droughty Depth to bedrock Water erosion	0.00 0.00 0.58 0.99	Poor Depth to bedrock Low strength Shrink-swell Slope	0.00 0.00 0.00 0.82	Poor Slope Too Clayey Depth to bedrock	0.00 0.00 0.58

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
DaB: Davis-----	85	Good		Poor Low strength	0.00	Good	
DbB: Davis Variant-----	85	Fair Low content of organic matter	0.12	Good		Fair Rock fragments	0.97
DcB: Davis-----	85	Good		Poor Low strength Shrink-swell	0.00 0.87	Good	
EaB: Egan-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Chancellor-----	25	Fair Too clayey	0.50	Poor Low strength	0.00	Poor Depth to saturated zone	0.00
		Low content of organic matter Water erosion	0.50 0.90	Depth to saturated zone Shrink-swell	0.00 0.12	Too Clayey	0.50
EbB: Egan-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Trent-----	20	Fair Water erosion Too clayey	0.90 0.98	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.76

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EbC: Egan-----	40	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Ethan-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Trent-----	15	Fair Water erosion Too clayey	0.90 0.98	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.76
EcA: Egan-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Wentworth-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
EcB: Egan-----	50	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Wentworth-----	40	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
EdA: Egan-----	55	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Whitewood-----	30	Fair Water erosion	0.90	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone	0.00
EeB: Egan-----	45	Fair Low content of organic matter Water erosion	0.50  0.90	Poor Low strength  Shrink-swell	0.00  0.87	Good	
Clarno-----	25	Fair Low content of organic matter Water erosion	0.50  0.99	Poor Low strength  Shrink-swell	0.00  0.87	Good	
Trent-----	20	Fair Low content of organic matter Water erosion Too clayey	0.50  0.90 0.98	Poor Low strength  Shrink-swell	0.00  0.87	Fair Too Clayey	0.98
EfA: Egan-----	50	Fair Low content of organic matter Water erosion	0.50  0.90	Poor Low strength  Shrink-swell	0.00  0.87	Good	
Trent-----	35	Fair Low content of organic matter Water erosion Too clayey	0.50  0.90 0.98	Poor Low strength  Shrink-swell	0.00  0.87	Fair Too Clayey	0.98
EfB: Egan-----	50	Fair Low content of organic matter Water erosion	0.50  0.90	Poor Low strength  Shrink-swell	0.00  0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Trent-----	30	Fair Low content of organic matter Water erosion Too clayey	0.50  0.90 0.98	Poor Low strength  Shrink-swell	0.00  0.87	Fair Too Clayey	0.98
EhA: Enet-----	45	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
Delmont-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.85	Good		Poor Too sandy Rock fragments  Hard to reclaim	0.00 0.00 0.32
EhB: Enet-----	45	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.82
Delmont-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.85	Good		Poor Too sandy Rock fragments  Hard to reclaim	0.00 0.00 0.32
EkD: Ethan-----	90	Fair Carbonate content Low content of organic matter Water erosion	0.32 0.50 0.99	Poor Low strength Shrink-swell  Slope	0.00 0.87 0.92	Poor Slope Carbonate content	0.00 0.32
EmE: Ethan-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Slope  Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope  Carbonate content	0.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Betts-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Slope  Low strength Shrink-swell	0.00 0.00 0.87	Poor Slope  Carbonate content	0.00 0.92
EnC: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength  Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Bonilla-----	30	Fair Low content of organic matter Water erosion	0.12 0.99	Poor Low strength  Shrink-swell	0.00 0.87	Good	
EoD: Ethan-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength  Shrink-swell	0.00 0.87	Fair Slope  Carbonate content	0.37 0.97
Davis-----	35	Good		Poor Low strength	0.00	Fair Slope	0.37
Epd: Ethan-----	45	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength  Shrink-swell	0.00 0.87	Fair Slope  Carbonate content	0.37 0.97
Talmo-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.13	Good		Poor Too sandy Rock fragments  Hard to reclaim Slope	0.00 0.00 0.00 0.63

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ErD: Ethan-----	60	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.68
Clarno-----	30	Fair Low content of organic matter Water erosion	0.50 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope	0.37
ESD: Ethan-----	55	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Poor Slope Carbonate content	0.00 0.68
Bon-----	25	Good		Fair Low strength	0.78	Good	
EtC: Ethan-----	50	Fair Carbonate content Low content of organic matter	0.68 0.88	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.68
Egan-----	35	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Fa: Forney-----	85	Poor Too clayey Water erosion	0.00 0.90	Poor Low strength Shrink-swell  Depth to saturated zone	0.00 0.20  0.53	Poor Too Clayey Depth to saturated zone	0.00 0.53

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Fb: Forney-----	80	Poor Too clayey	0.00	Poor Low strength Shrink-swell  Depth to saturated zone	0.00 0.12  0.76	Poor Too Clayey Depth to saturated zone	0.00 0.76
Ga: Grable-----	85	Fair Low content of organic matter Water erosion Carbonate content	0.12  0.90 0.97	Good		Fair Carbonate content	0.97
GAV: Orthents, Loamy-----	100	Fair Low content of organic matter Water erosion	0.12  0.99	Poor Slope  Low strength Shrink-swell	0.00  0.22 0.87	Poor Slope	0.00
Gb: Graceville-----	85	Good		Poor Low strength Shrink-swell	0.00 0.98	Poor Hard to reclaim	0.00
Ha: Haynie-----	85	Fair Water erosion	0.99	Poor Low strength	0.00	Good	
Hb: Haynie-----	85	Fair Water erosion	0.99	Poor Low strength	0.00	Good	
Ja: James-----	85	Poor Too clayey  Salinity Sodium content Water erosion	0.00  0.00 0.22 0.99	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Depth to saturated zone Salinity Too Clayey Sodium content	0.00 0.00 0.00 0.22

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
L <sub>a</sub> : Lakeport-----	85	Fair Too clayey Water erosion Carbonate content	0.24 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.32	Fair Too Clayey	0.21
L <sub>b</sub> : Lamo-----	85	Fair Low content of organic matter Water erosion	0.88 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone	0.53
L <sub>c</sub> : Luton-----	85	Poor Too clayey Low content of organic matter	0.00 0.50	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
L <sub>d</sub> : Luton-----	85	Poor Too clayey Low content of organic matter	0.00 0.50	Poor Depth to saturated zone Shrink-swell Low strength	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
O <sub>a</sub> : Onawa-----	85	Poor Too clayey Low content of organic matter Water erosion Carbonate content	0.00 0.12 0.90 0.97	Poor Low strength Shrink-swell	0.00 0.08	Poor Too Clayey Carbonate content	0.00 0.97

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ob: Owego-----	85	Fair Low content of organic matter Water erosion Carbonate content	0.50 0.90 0.97	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Depth to saturated zone Carbonate content	0.53 0.97
Pa: Orthents, Gravelly--	99	Fair Droughty Low content of organic matter Too sandy	0.05 0.12 0.14	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18
Ra: Redstoe Variant-----	90	Poor Carbonate content Water erosion	0.00 0.90	Poor Low strength	0.00	Poor Carbonate content Slope	0.00 0.63
Rb: Roxbury-----	85	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.89	Good	
Rc: Roxbury-----	90	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.89	Good	
Rd: Roxbury-----	85	Fair Low content of organic matter Water erosion	0.12 0.90	Poor Low strength Shrink-swell	0.00 0.89	Good	
Sa: Salix-----	90	Fair Low content of organic matter Too clayey Water erosion	0.50 0.82 0.90	Poor Low strength	0.00	Fair Too Clayey	0.72

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Sb: Salmo-----	85	Fair Salinity  Carbonate content  Sodium content Too clayey	0.88  0.97 0.97 0.98	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone Salinity  Sodium content Too Clayey	0.00  0.00 0.98 0.98
SdA: Sardak-----	85	Poor Too sandy Wind erosion Droughty Low content of organic matter	0.00 0.00 0.35 0.88	Good		Poor Too sandy	0.00
SeA: Sardak-----	50	Poor Too sandy Wind erosion Droughty Low content of organic matter	0.00 0.00 0.35 0.88	Good		Poor Too sandy	0.00
Grable-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.12  0.90 0.97	Good		Fair Carbonate content	0.97
TaE: Talmo-----	55	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.13	Poor Slope	0.00	Poor Slope Too sandy  Rock fragments Hard to reclaim	0.00 0.00  0.00 0.00
Thurman-----	30	Fair Too sandy Low content of organic matter Droughty	0.06 0.12 0.91	Fair Slope	0.50	Poor Slope Too sandy	0.00 0.06



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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Tb: Tetonka-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.38	Poor Depth to saturated zone Too Clayey	0.00 0.00
TcC: Thurman-----	40	Fair Too sandy Low content of organic matter Droughty	0.06 0.12 0.91	Good		Fair Too sandy	0.06
Ethan-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.68 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
TdA: Trent-----	85	Fair Water erosion Too clayey	0.90 0.98	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.76
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Waubonsie-----	85	Fair Low content of organic matter Carbonate content	0.50 0.97	Poor Low strength Shrink-swell Depth to saturated zone	0.00 0.00 0.53	Fair Depth to saturated zone Carbonate content	0.53 0.97
WbA: Wentworth-----	85	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
WcB: Wentworth-----	60	Fair Low content of organic matter Water erosion	0.50 0.90	Poor Low strength Shrink-swell	0.00 0.87	Good	
Trent-----	25	Fair Water erosion Too clayey	0.90 0.98	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.76
Wd: Worthing-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00
We: Worthing-----	100	Poor Too clayey Water erosion	0.00 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.00	Poor Too Clayey Depth to saturated zone	0.00 0.00

